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(54) Title: **HEAT EXCHANGER**

(54) Bezeichnung: **WÄRMETAUSCHER**

(57) Abstract: The invention relates to a heat exchanger, particularly an evaporator for air conditioners in motor vehicles, having a number of heat transfer surfaces made of metal, in particular, aluminum or aluminum compounds. The aim of the invention is to provide this heat exchanger with a surface coating that is improved compared to the prior art. To this end, a number of layers are applied to its heat transfer surfaces, and nanoparticles are used for the coating.

(57) Zusammenfassung: Ein Wärmetauscher, insbesondere ein Verdampfer für Klimaanlage in Kraftfahrzeugen, mit einer Anzahl von Wärmeübertragungsoberflächen aus Metall, insbesondere Aluminium oder Aluminiumverbindungen, soll mit einer Oberflächenbeschichtung versehen werden, die gegenüber dem Stand der Technik verbessert ist. Dazu sind auf seine Wärmeübertragungsoberflächen mehrere Schichten aufgebracht, wobei zur Beschichtung Nanopartikel eingesetzt sind.